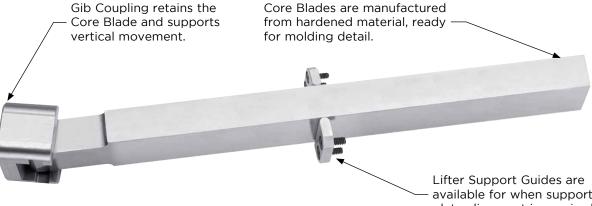
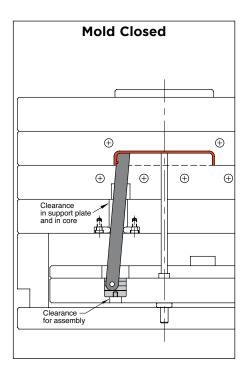
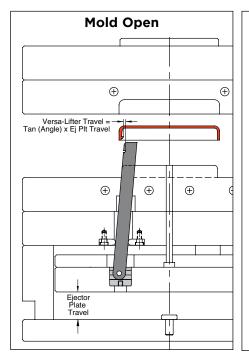
## VERSA-LIFTER<sup>™</sup> UNDERCUT RELEASE SYSTEM



available for when support plate alignment is required.





#### **APPLICATION GUIDELINES**

- Typical angles are 5-10°, but users have reported success at larger angles for unique applications with greater bearing, such as cavity side core pulls. Contact tech@procomps.com for an application review.
- Guided Ejection is required, and the Lifter Support Guides are recommended in all applications. (See page H-10)
- Recommended total clearance is .001"-.0015" (.025-.038mm) where permissible.
- Core material should be at least 10 HRC different than the Core Blade material.
- Locking angles can be designed to counter molding pressure.
- Made-to-order Core Blades can be provided by sending a request to tech@procomps.com.

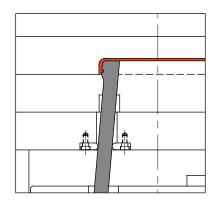
#### **Design Options**

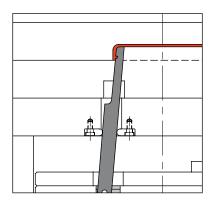
MOULD CONCEPTS

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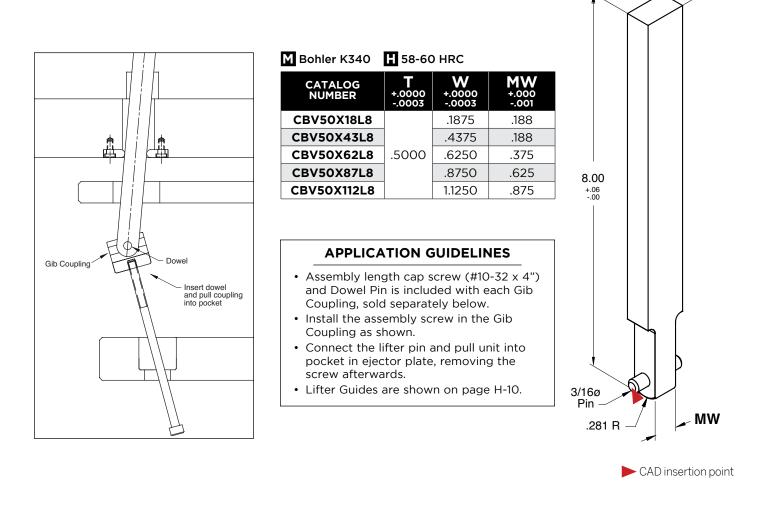
- For positive return, a locking angle can be designed into the Core Blade as shown at right.
- In addition, if space is limited at parting line, the Core Blade can be stepped.



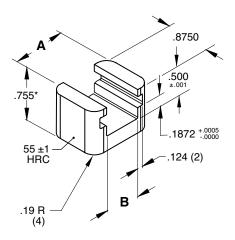




# VERSA-LIFTER<sup>™</sup> CORE BLADES



**GIB COUPLINGS** 



CATALOG NUMBER	<b>A</b> CENTRAL	<b>B</b> +.001 000	COMPATIBLE CORE BLADE WIDTHS (W)
UGV68	.6860	.190	.1875 & .4375
UGV87	.8735	.377	.6250
UGV112	1.1235	.627	.8750
UGV137	1.3735	.877	1.1250

W

 $^{\ast}$  .005" stock is included on the bottom for fitting. Includes #10-32 x 4" long screw.



# FLEXICORE<sup>™</sup> UNDERCUT RELEASE SYSTEM

Flats prevent twisting and ensure proper alignment.

Improved materials used to increase the life of the FlexiCore during production.

MOULD CONCEPTS

HAN

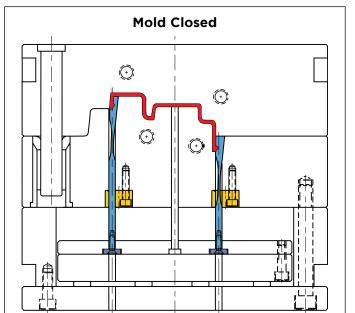
el: +31 (315) 23 11

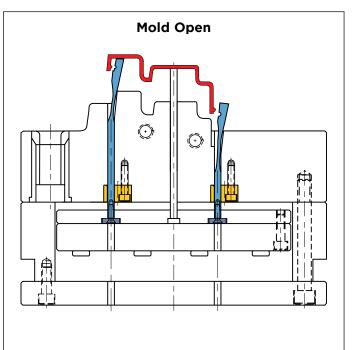
www.dahanan.eu

D

Heel Plate is included to retain FlexiCore.

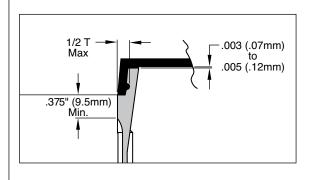
Bronze Guide is used for positional alignment and guidance during ejection. Two options available: Bottom (as shown) and Round for easy bore machining.





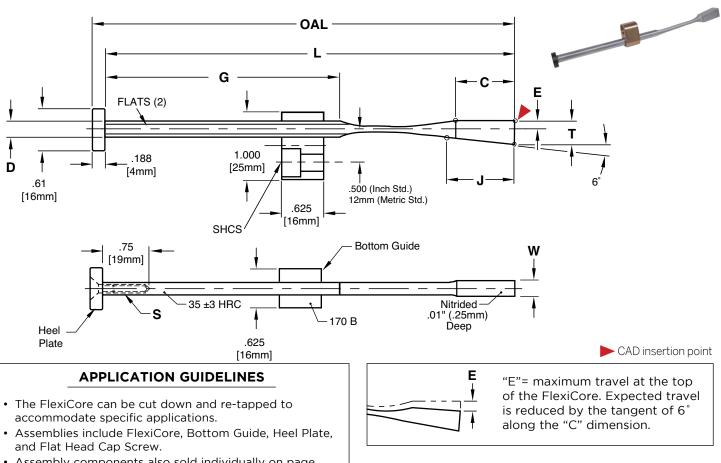
#### APPLICATION GUIDELINES

- The FlexiCore diameter (D) must be within the Guide prior to ejection as shown above.
- Only surface treatments applied at low temperatures such as Electroless Nickel-based or chromium deposition treatments are permitted.
- Maximum temperature is 250°F (125°C).
- FlexiCore Assembly includes: FlexiCore, Bronze Guide (Bottom or Round), Heel Plate, and Flat Head Cap Screw.
- Please contact tech@procomps.com to review any designs if questions arise or if your application differs from the examples shown.





FLEXICORE<sup>™</sup> BOTTOM GUIDE ASSEMBLY



• Assembly components also sold individually on page H-23.

### Inch Standard

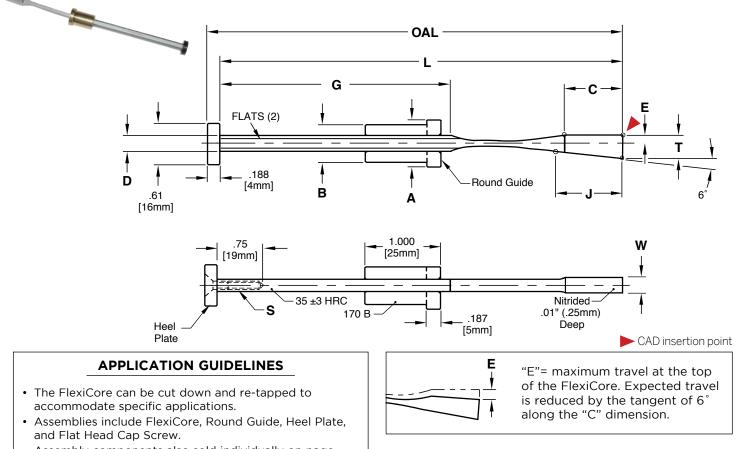
M FlexiCore: AISI 4340 with thin, dense Chromium treatment, Guide: CA954 Solid Bronze, Heel Plate: AISI 1018

CATALOG NUMBER	<b>T</b> +.002 000	<b>W</b> +.002 000	<b>L</b> +.010 000		<b>D</b> +.000 001	<b>С</b> ±.015	Е	<b>G</b> +.01 00	J	S (INCLUDED)	SHCS
FCA35X24L6	.354	.244	6.400	6.588	.234	.875	.137	3.49	.957	#8-32 x 3/8	1/4-20
FCA35X32L6	.354	.322	6.400	6.588	.250	.875	.137	3.48	.957	#8-32 x 3/8	1/4-20
FCA45X40L7	.453	.401	7.875	8.062	.312	1.000	.177	4.38	1.025	#10-24 x 1/2	1/4-20
FCA45X48L7	.453	.480	7.875	8.062	.312	1.000	.177	4.38	1.025	#10-24 x 1/2	1/4-20

CATALOG NUMBER	<b>T</b> +.05 00	<b>W</b> +.05 00	<b>L</b> +.25 00		<b>D</b> +.000 025	<b>C</b> ± .35	E	<b>G</b> +.25 00	J	S (INCLUDED)	SHCS
FCA9X6L160	9	6.2	162.5	166.5	5.94	22	3.5	88.6	24.3	M4-0.7 x 12	M6-1
FCA9X8L160	9	8.2	162.5	166.5	6.35	22	3.5	88.4	24.3	M4-0.7 x 12	M6-1
FCA11X10L200	11.5	10.2	200.0	204.0	7.92	26	4.5	111.2	26.0	M5-0.8 x 14	M6-1
FCA11X12L200	11.5	12.2	200.0	204.0	7.92	26	4.5	111.2	26.0	M5-0.8 x 14	M6-1
FCA12X14L200	12.5	14.2	200.0	204.0	7.92	30	4.5	107.2	28.5	M5-0.8 x 14	M6-1
FCA12X16L200	12.5	16.2	200.0	204.0	7.92	30	4.5	107.2	28.5	M5-0.8 x 14	M6-1



# FLEXICORE<sup>™</sup> ROUND GUIDE ASSEMBLY



• Assembly components also sold individually on page H-23.

### Inch Standard

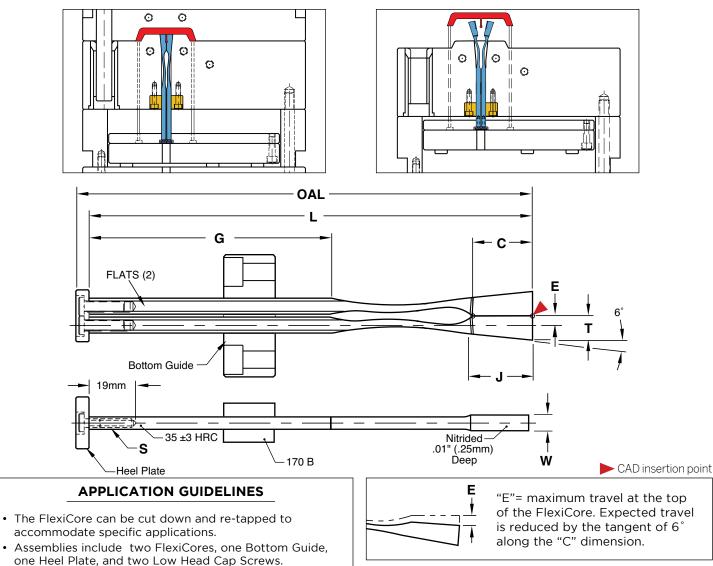
M FlexiCore: AISI 4340 with thin, dense Chromium treatment, Guide: CA954 Solid Bronze, Heel Plate: AISI 1018

CATALOG NUMBER	<b>T</b> +.002 000	<b>W</b> +.002 000	<b>L</b> +.010 000		<b>D</b> +.000 001	<b>C</b> ± .015	E	<b>G</b> +.01 00	J	S (INCLUDED)	Α	В
FCR35X24L6	.354	.244	6.400	6.588	.234	.875	.137	3.49	.957	#8-32 x 3/8	.625	.500
FCR35X32L6	.354	.322	6.400	6.588	.250	.875	.137	3.48	.957	#8-32 x 3/8	.625	.500
FCR45X40L7	.453	.401	7.875	8.062	.312	1.000	.177	4.38	1.025	#10-24 x 1/2	.750	.625
FCR45X48L7	.453	.480	7.875	8.062	.312	1.000	.177	4.38	1.025	#10-24 x 1/2	.750	.625

CATALOG NUMBER	<b>T</b> +.05 00	<b>W</b> +.05 00	<b>L</b> +.25 00		<b>D</b> +.000 025	С ±.35	E	<b>G</b> +.25 00	J	S (INCLUDED)	Α	В
FCR9X6L160	9	6.2	162.5	166.5	5.94	22	3.5	88.6	24.3	M4-0.7 x 12	16	12
FCR9X8L160	9	8.2	162.5	166.5	6.35	22	3.5	88.4	24.3	M4-0.7 x 12	16	12
FCR11X10L200	11.5	10.2	200.0	204.0	7.92	26	4.5	111.2	26.0	M5-0.8 x 14	20	16
FCR11X12L200	11.5	12.2	200.0	204.0	7.92	26	4.5	111.2	26.0	M5-0.8 x 14	20	16
FCR12X14L200	12.5	14.2	200.0	204.0	7.92	30	4.5	107.2	28.5	M5-0.8 x 14	20	16
FCR12X16L200	12.5	16.2	200.0	204.0	7.92	30	4.5	107.2	28.5	M5-0.8 x 14	20	16



# FLEXICORE<sup>™</sup> DOUBLE ACTUATION



### Inch Standard

• Assembly components also sold individually on page H-23.

M FlexiCore: AISI 4340 with thin, dense Chromium treatment, Guide: CA954 Solid Bronze, Heel Plate: AISI 1018

CATALOG NUMBER	<b>T</b> +.002 000	<b>W</b> +.002 000	<b>L</b> +.010 000		<b>D</b> +.000 001	<b>C</b> ±.015	<b>E</b> ±.015	<b>G</b> +.01 00	<b>,</b> +.01 00	S (INCLUDED-2)
FCDA35X24L6	.354	.244	6.400	6.588	.234	.875	.137	3.49	.957	#8-32 x 3/8
FCDA45X48L7	.453	.480	7.875	8.062	.312	1.000	.177	4.38	1.025	#10-24 x 1/2

CATALOG NUMBER	<b>T</b> +.05 00	<b>W</b> +.05 00	<b>L</b> +.25 00		<b>D</b> +.000 025	С ±.035	<b>E</b> 015	<b>G</b> +.25 00	<b>,</b> +.01 00	S (INCLUDED-2)
FCDA9X6L160	9	6.2	162.5	166.5	5.94	22	3.5	88.6	24.3	M4-0.7 x 12
FCDA11X12L200	11.5	12.2	200.0	204.0	7.92	26	4.5	111.2	26.0	M5-0.8 x 14
FCDA12X14L200	12.5	14.2	200.0	204.0	7.92	30	4.5	107.2	28.5	M5-0.8 x 14
FCDA12X16L200	12.5	16.2	200.0	204.0	7.92	30	4.5	107.2	28.5	M5-0.8 x 14



# **FLEXICORE<sup>™</sup> ACCESSORIES** WEAR BLOCKS

#### **Inch Standard**

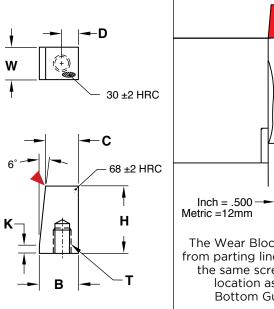
#### P-20 Pre-Hard H Nitrided .005" Deep

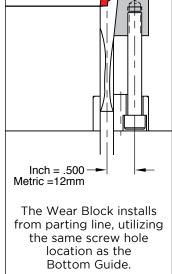
CATALOG NUMBER	<b>W</b> +.002 000	<b>D</b> ±.01	<b>B</b> +.001 000	<b>C</b> +.001 000	н	К	<b>T</b> THREAD
FCWB-24	.244	.250	.626	.533	1.000	.115	#10-24
FCWB-32	.322	.250	.626	.533	1.000	.115	1/4-20
FCWB-40	.401	.250	.567	.474	1.000	.115	1/4-20
FCWB-48	.480	.250	.567	.474	1.000	.115	1/4-20

Note: FCWB-24 is designed for use with a  $1/4\emptyset$  shoulder bolt.

#### **Metric Standard**

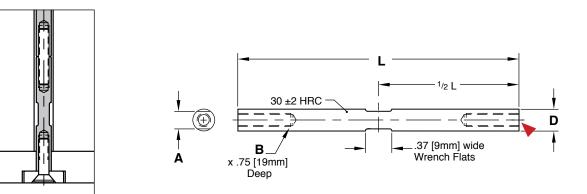
CATALOG NUMBER	<b>W</b> +.05 00	<b>D</b> ±.25	<b>B</b> +.025 000	<b>C</b> +.025 000	н	к	<b>T</b> THREAD
FCWBM-6	6.2	7.2	15.9	13.55	25.4	2.9	M5-0.8
FCWBM-8	8.2	7.2	15.9	13.55	25.4	2.9	M6-1
FCWBM-10	10.2	7.2	14.4	12.05	25.4	2.9	M6-1
FCWBM-12	12.2	7.2	14.4	12.05	25.4	2.9	M6-1
FCWBM-14	14.2	8.0	15.2	12.11	33.2	3.5	M6-1
FCWBM-16	16.2	8.0	15.2	12.11	33.2	3.5	M6-1





CAD insertion point

## **EXTENSIONS**



### **Inch Standard**

M 4140 Pre-Hard

<b>D</b> +.000 005	В	A	+. 1	01 00
005			2"	4"
.232	#8-32	.187	FCX8L2	FCX8L4
.310	#10-24	.250	FCX10L2	FCX10L4

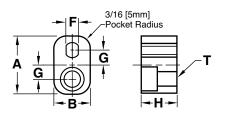
Includes threaded stud for attachment to FlexiCore.

M 4140 F	Pre-Hard			CAD insertion point		
<b>D</b> +.00 12	В	Α	<b>L</b> +.25 00			
12			50мм	100мм		
6	M47	4.8	FCXM4L50	FCXM4L100		
8	M58	6.3	FCXM5L50	FCXM5L100		





# FLEXICORE<sup>™</sup> ACCESSORIES REPLACEMENT GUIDES



### **Bottom Guides: Inch/Metric Standard**

#### M CA954 Solid Bronze

CATALOG NUMBER	Α	В	H	F	G	т
FCBG-24	1.000	.625	.625	.190	.250	1/4-20
FCBG-32	1.000	.625	.625	.200	.250	1/4-20
FCBG-40	1.000	.625	.625	.290	.250	1/4-20
FCBG-6	25	16	16	4.8	6	M6-1
FCBG-8	25	16	16	5.0	6	M6-1
FCBG-10	25	16	16	7.3	6	M6-1

### **Round Guides: Inch/Metric Standard**

M CA954 Solid Bronze

CATALOG NUMBER	В	С	Н	F	Х	G
FCRG-24	.5000	.625	1.000	.190	.187	.250
FCRG-32	.5000	.625	1.000	.200	.187	.250
FCRG-40	.6250	.750	1.000	.290	.187	.312
FCRG-6	12	16	25	4.8	5	6
FCRG-8	12	16	25	5.0	5	6
FCRG-10	16	20	25	7.3	5	8

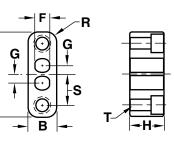
Screws included.

### **Double Actuation: Inch/Metric Standard**

M CA954 Solid Bronze

CATALOG NUMBER	Α	В	Η	F	G	R	S	Т
FCDBG-24	1.750	.625	.750	.190	.136	.218	.636	1/4-20
FCDBG-48	1.875	.625	.750	.290	.176	.218	.676	1/4-20
FCDBG-6	45	16	20	4.8	3.5	5	15.5	M6-1
FCDBG-12	48	16	20	7.3	4.5	5	16.5	M6-1

Screws included.



Screws included.

## REPLACEMENT HEEL PLATES

# Inch/Metric Standard

M 4140 Pre-Hard H Black Oxide

CATALOG NUMBER	К	Р	S (INCLUDED)		
FCHP-8	.61	.188	#8-32 x 3/8		
FCHP-10	.61	.188	#10-24 x 1/2		
FCHP-4	16	4	M4-0.7 x 12		
FCHP-5	16	4	M5-0.8 x 14		

Screws included.

### **Double Actuation: Inch/Metric Standard** M 4140 Pre-Hard H Black Oxide

CATALOG NUMBER	С	К	Р	S (INCLUDED)
FCDHP-8	.272	.750	.188	#8-32 x 3/8
FCDHP-10	.352	.875	.188	#10-24 x 1/2
FCDHP-4	7	20	6	M4-0.7 x 12
FCDHP-5	9	22	6	M5-0.8 x 14

Screws included.



